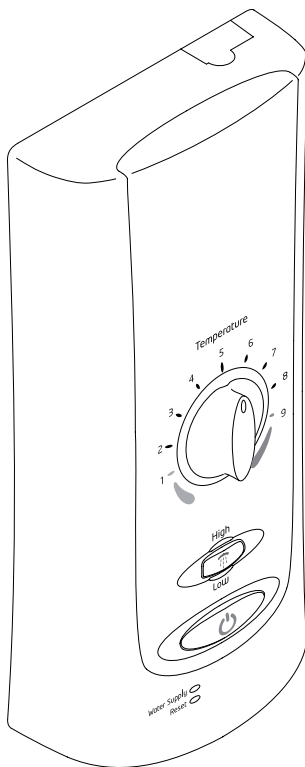


9.0 AND 9.8 kW

mira

Advance
ATL THERMOSTATIC



MIRA ADVANCE ATL
ADJUSTABLE TEMPERATURE LIMIT THERMOSTATIC

ELECTRIC SHOWER

Installation & User Guide

This product is suitable for mains fed cold water only.

These instructions are to be left with the user

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TO THE CUSTOMER

Mira Advance ATL key features:

- Designed for safe and reliable control.
- Automatically adjusts to maintain constant temperature.
- Constantly monitors supply conditions.

Mira Advance ATL models covered by this guide

Product Variant	9.0	9.8	Adjustable Temperature Limit	Memory Push Button Feature	Extended Lever Control	Drain Pump Compatible
Standard	✓	✓	✓	✗	✗	✗
Memory	✓	✓	✓	✓	✗	✗
Flex	✓	✓	✓	✗	✓	✗
Standard Extra	✓	✗	✓	✗	✗	✓
Flex Extra	✓	✗	✓	✗	✓	✓

The following separate drain kits are required for the 'Extra' models:

- SDP124T - Mira Whale Tray Kit (complete with 50 mm gully)
- SDP134T - Mira Whale Wet Floor Kit (complete with wet gully for vinyl)

This product must only be used with a Whale Shower Drain Pump (included in the kits listed above).

Please pass on this guide in the event of change of ownership of the installation site.

If you experience any difficulty with the installation or operation of your new Electric Shower, then please refer to **'Fault Diagnosis'**, before contacting Mira Showers. Our contact details can be found on the back cover of this guide.

Guarantee

For **domestic installations**, Mira Showers guarantee the Mira Advance ATL against any defect in materials or workmanship for a period of **two years** from the date of purchase (shower fittings for one year).

For **non-domestic installations**, Mira Showers guarantee the Mira Advance ATL against any defect in materials or workmanship for a period of **one year** from the date of purchase.

For Terms and Conditions refer to the back cover of this guide.

Recommended Usage	
Domestic	✓
Light Commercial	✓
Heavy Commercial	✗
Healthcare	✓

Patents and Design Registration

Design Registration:	000738141: 0003, 0006, 0007, 0009
Patents:	GB: 2269466, 2270370, 2298478, 2298479, 2298481

IMPORTANT SAFETY INFORMATION

Installation must be carried out in accordance with these instructions, and must be conducted by designated, qualified and competent personnel.

Warning!

1. Products manufactured by us are safe and risk-free, provided that they are installed, used and maintained in good working order, in accordance with our instructions and recommendations.
2. Isolate the electrical and water supplies before commencing installation. The electricity must be turned off at the mains and the appropriate circuit fuse removed, if applicable.
3. Mains connections are exposed when the cover is removed.
4. Refer to the wiring diagram before making any electrical connections.
5. Make sure that any pipework that could become frozen is properly insulated.
6. Having completed the installation, make sure that the user is familiar with the operation of the appliance.
7. Make sure that this guide is left with the user.
8. **DO NOT** commission this appliance if water leaks from the unit or the heater tank pressure relief valve.
9. **DO NOT** fit any form of outlet control (e.g. Trigger handset) as the outlet acts as a vent for the tank body. Only Mira recommended outlet fittings should be used.
10. Make sure all electrical connections are tight, to prevent overheating.
11. **DO NOT** operate this appliance if it is frozen. Allow the appliance to thaw before using. The shower unit must not be fitted where it may be exposed to freezing conditions.
12. This product is not suitable for areas with high humidity (i.e steam rooms). Please consult your installer.
13. **THIS APPLIANCE MUST BE EARTHED. MAKE SURE SUPPLEMENTARY BONDING COMPLIES WITH THE 'REQUIREMENTS FOR ELECTRICAL INSTALLATIONS'.**

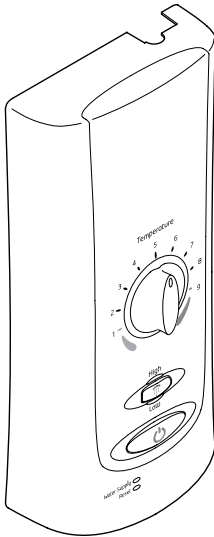
This electric shower is intended to be permanently connected to the fixed electrical wiring of the mains system.

Caution!

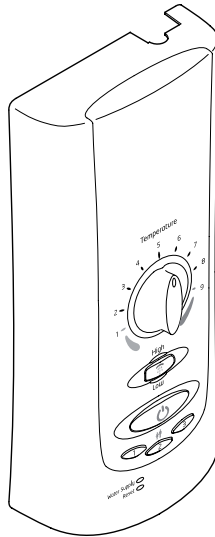
1. Read all of these instructions and retain this guide for later use.
2. The electrical installation must comply to 'BS 7671 - Requirements for Electrical Installations', commonly referred to as the IEE Wiring Regulations - Part 7, or any particular regulations and practices, specified by the local electricity supply company.
3. The plumbing installation must comply with the requirements of UK Water Regulations/Bye-laws (Scotland), Building Regulations or any particular regulations and practices, specified by the local water company or water undertakers.
4. Make sure that you fully understand how to operate this shower and make sure that it is properly maintained in accordance with the instructions given in this manual.
5. Anyone who may have difficulty understanding or operating the controls of any shower should be attended whilst showering. Particular consideration should be given to:
 - 5.1. The young.
 - 5.2. The elderly.
 - 5.3. The infirm.
 - 5.4. The disabled.
 - 5.5. Anyone who suffers from a medical condition that can result in temporary incapacity (e.g. epilepsy or blackouts).
 - 5.6. Anyone inexperienced in the correct operation of the controls.
6. Children should be supervised to make sure that they do not play with the appliance.
7. Sunburn or skin conditions can increase your sensitivity to hot water. Make sure that you set the shower to a cooler temperature.
8. If any of the following conditions occur, isolate the electricity and water supplies and refer to '**To contact us**', on the back page of this guide.
 - 8.1. If the cover is not correctly fitted and water has entered the appliance case.
 - 8.2. If the case is damaged.
 - 8.3. If the appliance begins to make an odd noise, smell or smoke.
 - 8.4. If the appliance shows signs of a distinct change in performance, indicating a need for maintenance.
 - 8.5. **DO NOT** operate this appliance if water leaks from this appliance.
9. When this appliance has reached the end of its serviceable life, it should be disposed of in a safe manner, in accordance with current local authority recycling, or waste disposal policy.

PACK CONTENTS

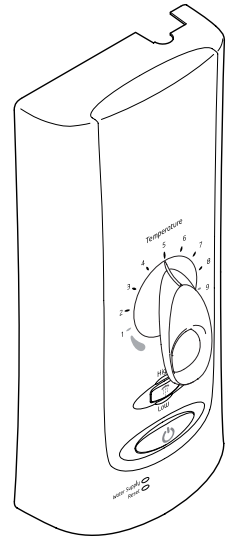
Tick the appropriate boxes to familiarise yourself with the part names and to confirm that the parts are included.



Or



Or



☐ 1 x Mira Advance ATL
Standard or Standard Extra
(Whale Shower Drain Pump
supplied separately)

☐ 1 x Mira Advance ATL
Memory

☐ 1 x Mira Advance ATL
Flex or Flex Extra
(Whale Shower Drain Pump
supplied separately)



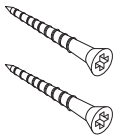
☐ 1 x Compression Nut



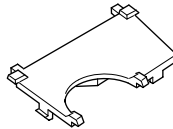
☐ 1 x Olive



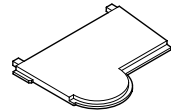
☐ 1 x Tap Connector Adaptor
(for fitting to existing tap connector)



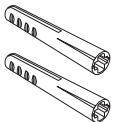
☐ 2 x Wall Screws



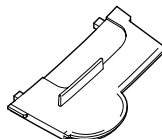
☐ 1 x Cover Insert Bottom



☐ 1 x Cover Insert Top



☐ 2 x Wall Plugs



☐ 1 x Cover Insert Falling Supply

Documentation

- ☐ 1 x Installer Checklist
- ☐ 1 x Installation Template
- ☐ 1 x Guarantee Registration Document

SPECIFICATIONS

Plumbing Supply	Supply Source	Mains pressure cold water only	
	Minimum Dynamic Pressure*	50 kPa (0.5 bar)	
	Maximum Static Pressure	1000 kPa (10 bar)	
	Minimum Static Pressure**	20 kPa (0.2 bar)	
	Maximum Inlet Temperature	28°C	
	Minimum Inlet Temperature	2°C	
	Inlet Connection	½" BSP male & 15 mm compression fitting.	
	Outlet Connection	½" BSP male fitting	
Electrical Supply	Nominal Rating at 230 V	8.2 kW	9.0 kW
	Nominal Rating at 240 V	9.0 kW	9.8 kW
	Supply Fuse/Circuit Breaker	9.0 kW	40 Amps
		9.8 kW	45 Amps
	Residual Current Device RCD	30 mA	
	Supply Cable	No larger than 16 mm ² Note: Refer to current IEE regulations and BS 7671 to determine minimum cable size.	
	Isolation Switch	45 Amp Double pole, with 3 mm contact separation.	
Maximum Ambient Temperature		30°C	
Minimum Ambient Temperature		2°C	

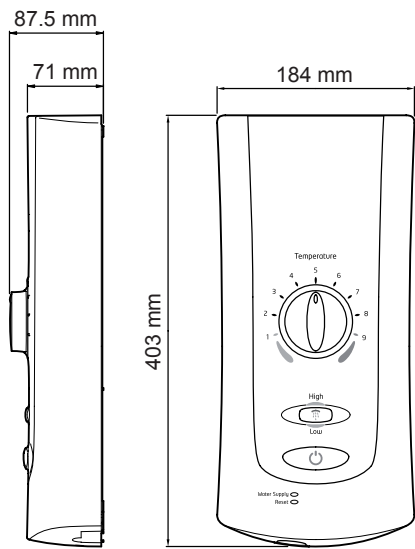
* Recommended dynamic pressure of 100 kPa (1.0 bar) for full flow performance.

** Static pressure must never fall below 20 kPa (0.2 bar) when other draw offs are in use, e.g. flushing toilet. This is the minimum pressure required to keep the flow valve closed.

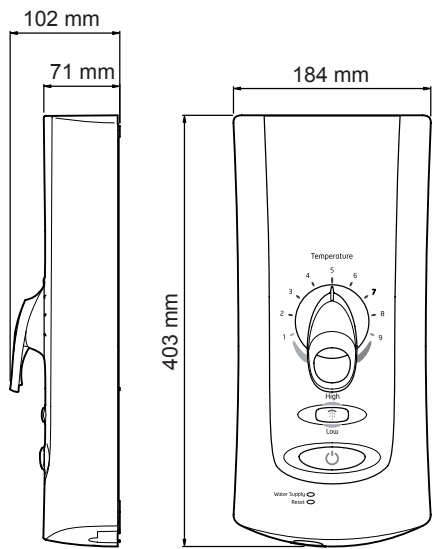
Standards and Approvals

The Mira Advance ATL complies with the requirements of the BEAB Care Mark Standard and the relevant directives for CE marking.

Dimensions



Advance ATL
Standard / Memory



Advance ATL Flex

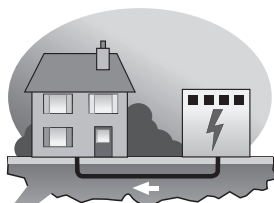
SHOWER PERFORMANCE

What affects shower performance?

The shower's top priority is to keep the desired water temperature constant. To maintain this temperature, the shower may have to automatically change the rate of water flowing through the appliance. Any of the following conditions can cause the shower to change the flow rate (force of the shower) in order to keep the temperature constant. Most changes are minor and will go unnoticed.



Seasonal changes affecting water supply temperature.

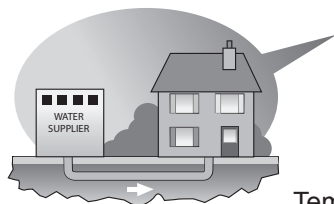


Changes of incoming supply voltage.

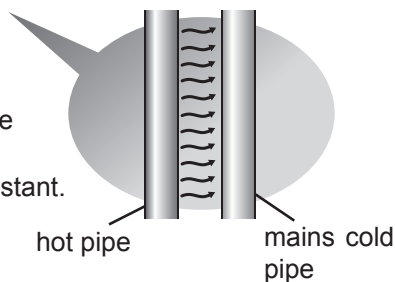


Changes in Flow Rate
(force of shower).

Temperature remains constant.



Changes of incoming supply pressure.



Heat transfer due to position of mains cold water pipe.

E.g.

- Positioned next to hot water pipe.
- Routed through heated area such as loft or airing cupboard.



Mains cold water draw off, e.g. toilet, wash basin etc.

INSTALLATION REQUIREMENTS

General

This product works best when supply temperatures and pressures remain stable and within the product specifications, refer to section '**Specifications**'. If the supply conditions fall outside the specifications, the shower may go into a safe shut down condition.

1. Plumbing

Refer to section: '**Important Safety Information**' first.

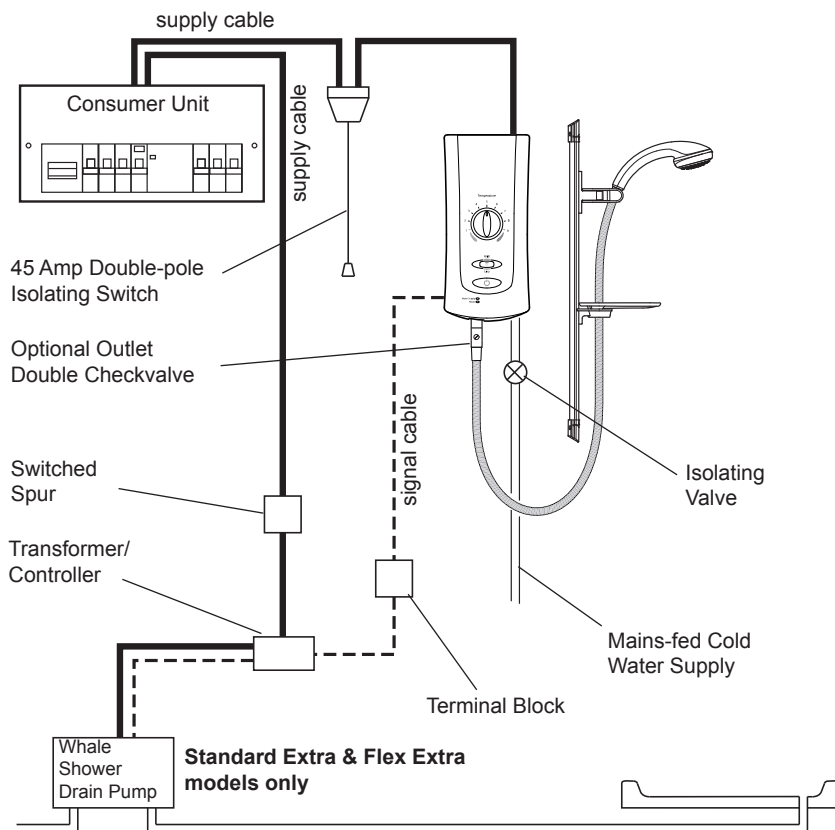
- 1.1** Do not use sealing compounds on any pipe fittings or joints.
- 1.2** Never fit the appliance to hot water supplies or to gravity systems of any description. Only fit the product to a mains cold water pipe.
- 1.3** Avoid layouts where the shower hose will be sharply kinked. This may reduce the life of the hose.
- 1.4** Supply pipework **MUST** be flushed to clear debris before connecting the appliance. Debris will reduce the performance of the shower.
Avoid running the pipework through excessively hot or cold areas such as hot loft spaces, airing cupboards, or in close proximity to hot water pipes. If this cannot be avoided, we would recommend insulating the pipes.
- 1.5** The appliance must be fitted onto the finished wall surface i.e. on top of the tiles. **DO NOT** tile up to the sides of the shower or use a sealant around the case. Failure to do this may cause appliance failure.
- 1.6** We recommend that a non-restrictive (free flowing) isolating valve is fitted in the cold water supply pipe to allow maintenance of the appliance.
- 1.7** When installed in very hard water areas (above 200 ppm temporary hardness) your installer may advise the installation of a water treatment device, to reduce the effects of limescale formation. Any malfunction due to limescale is not covered by the manufacturer's guarantee. Your local water company will be able to advise the hardness of water in your area.
- 1.8** **Caution!** Double checkvalves, fitted in the inlet supply to the appliance, cause a pressure buildup, which could exceed the maximum static inlet pressure and cause water to leak into the appliance.

2. Electrical

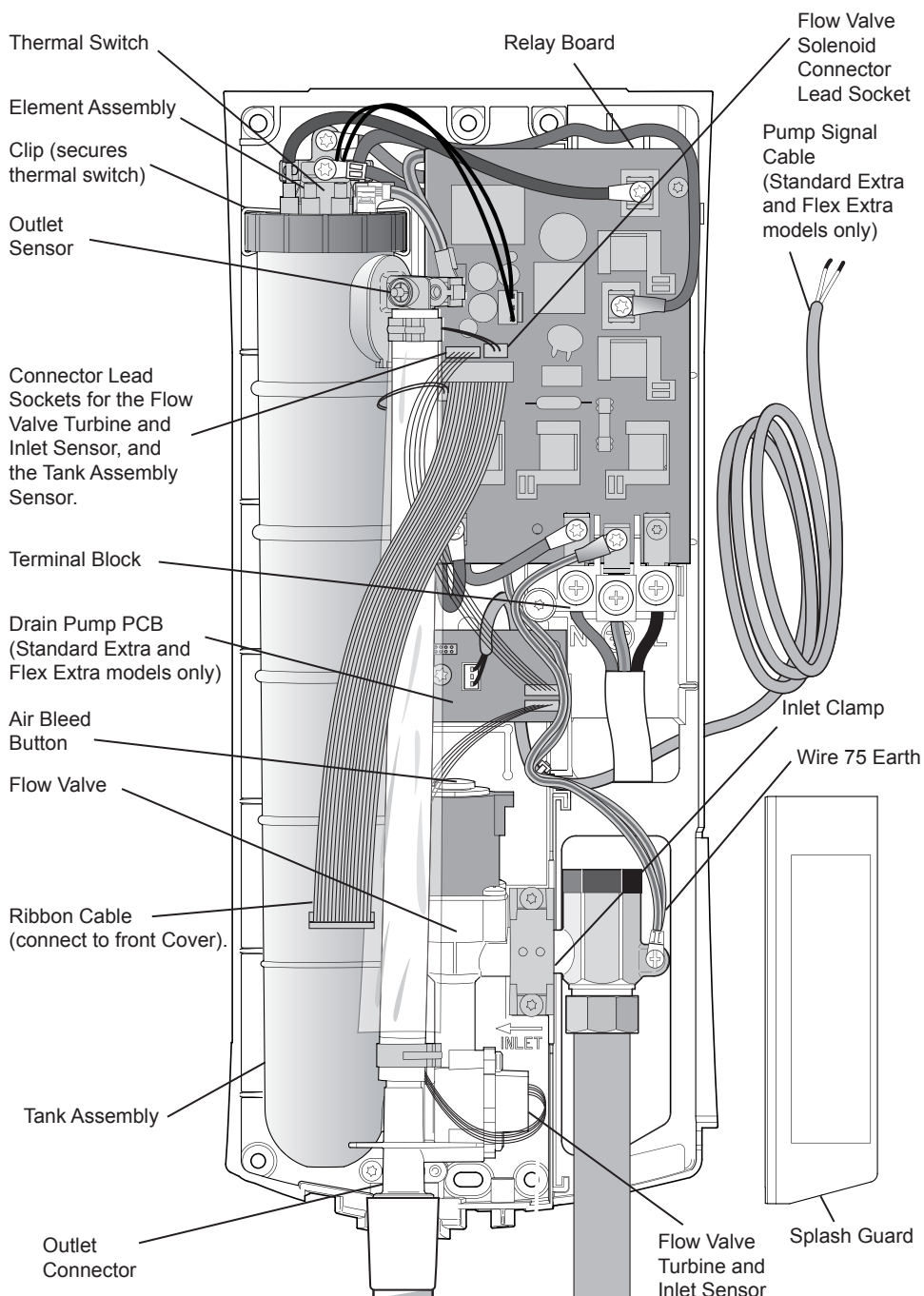
Refer to section: '**Important Safety Information**' first.

- 2.1** In a domestic installation, the rating of the electricity supplier's fuse and the consumer unit must be adequate for the additional demand. All Mira Advance ATL electric showers are high power appliances. Voltage drop due to local heavy demand will reduce the shower's performance.

- 2.2** The appliance must be earthed by connecting the supply-cable earth conductor to the earth terminal.
- Any supplementary bonding and supply cable size must conform to **BS 7671**.
- 2.3** As a guide only, and in accordance with **BS 7671** we recommend close circuit protection:
- i.e. **9.0 kW = 40 Amp**
 9.8 kW = 45 Amp
- A 30mA Residual Current Device (RCD) **MUST** be included in the electrical circuit. This may be part of the consumer unit or a separate unit.
- A separate, permanently connected supply is taken from the consumer unit to the appliance through a double-pole switch. The switch can be a ceiling mounted pullcord type or a wall mounted switch in an adjacent room.
- 2.4 DO NOT** exert strain on the terminal block, however make sure that the electrical connections are tightly screwed down.
- 2.5 DO NOT** turn on the electrical supply until the plumbing has been completed.



Plumbing and Electrical Schematic Diagram

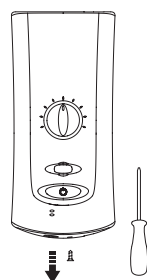
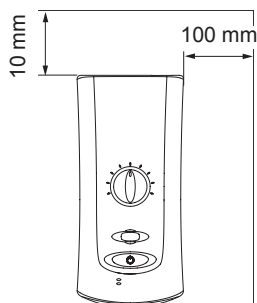


Mira Advance ATL
(Standard Extra and Flex Extra models shown)

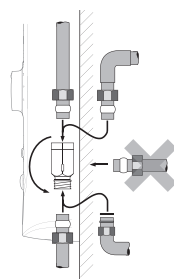
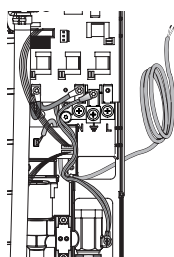
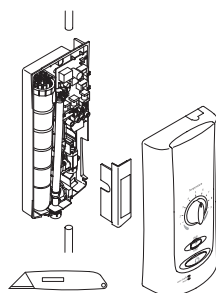
INSTALLATION

Refer to section: 'Important Safety Information' first.

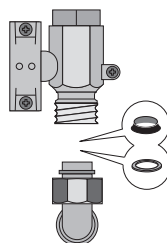
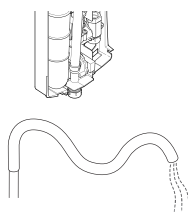
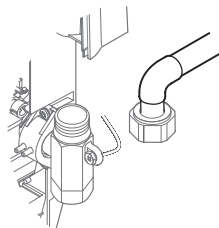
This installation covers all models of the Mira Advance ATL Thermostatic shower.



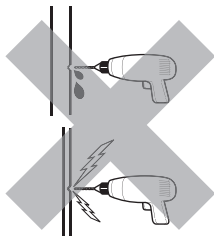
1. Electrical supply is turned off at the mains.
2. Determine the shower position, leaving adequate space for maintenance.
3. Remove cover screw.



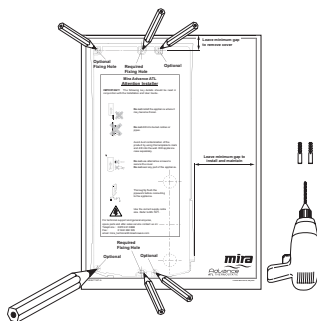
4. Remove the cover and splash guard. Determine supply pipe position and if required cut a slot in the case for the rising supply.
5. Make provision for signal cable to connect to shower drain pump (if applicable). Also refer to whale drain pump instructions.
6. Turn inlet connector to suit supply pipe. **Do not** trap green wire.



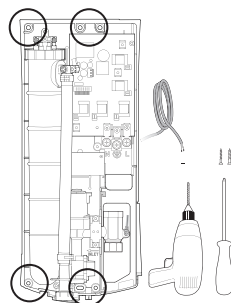
7. Complete any soldering required away from appliance.
8. Flush a minimum of 10 litres (2 gallons) through pipework prior to connection.
9. When fitting to a tap connection, use adaptor (supplied). **Do not** fit fibre washer.



10. Caution! Do not drill into buried cables or pipes.

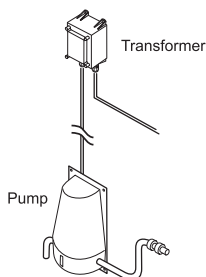


11. Use template provided to mark and drill required fixing holes. Screws and plugs are supplied for two required holes only.

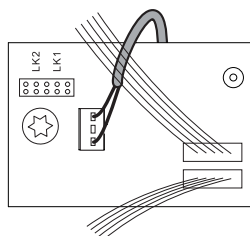


12. Drill holes through plastic case as required. Route signal cable to shower drain pump (if applicable). Fix appliance to wall.

13. Mira Advance ATL Standard Extra & Flex Extra variants only!



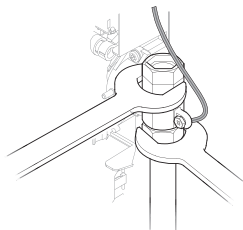
Find the whale shower drain pump transformer and identify it's type number.



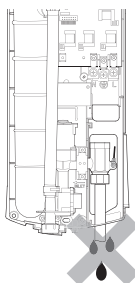
Jumper position for Mira Advance ATL drain pump PCB.

Type: 755.171	= LK1
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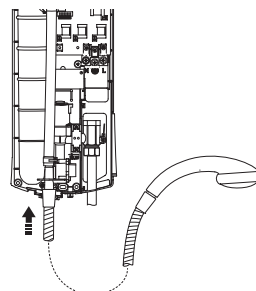
Type: 755.299	= LK2
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13. Connect supply pipe. **Do not** overtighten.



14. Turn on water supply and check for leaks.



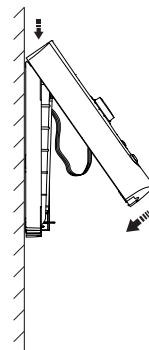
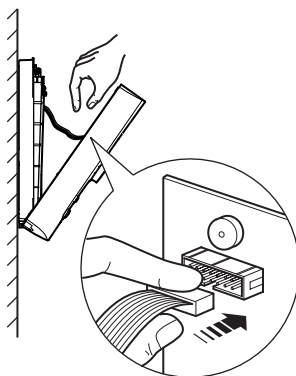
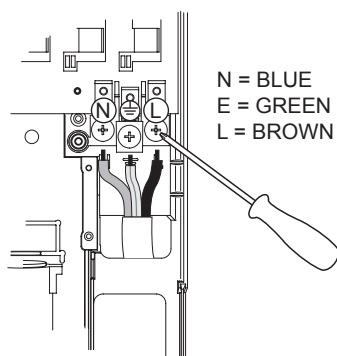
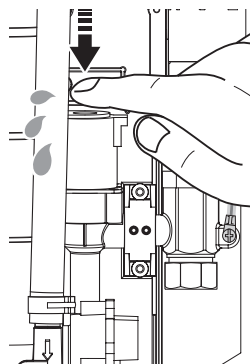
15. Connect hose and showerhead, pointing into bath or tray.

17. Important! Priming the Shower

Make sure electricity is isolated!

Push down and hold air bleed button to prime appliance until water appears from shower head. **Failure to prime will seriously affect shower performance!**

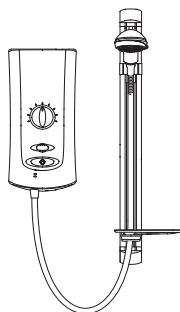
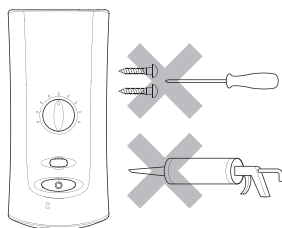
Carefully dry off water before connecting/reinstating electricity.



18. Feed cable into case. Fit earth sleeve and strip insulation. Firmly connect the conductors. **DO NOT** exert strain on terminal block.

19. Refit splash guard and connect ribbon cable to the inside of the cover.

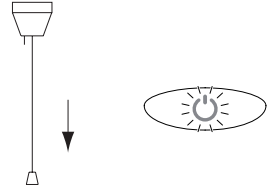
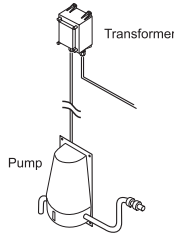
20. Refit cover. Inserts are provided to finish the top and bottom as required.



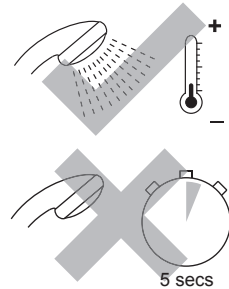
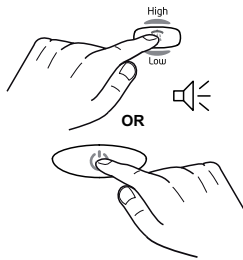
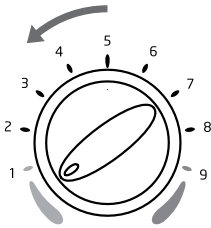
21. Do not use alternative screws to secure cover. This can cause internal damage to the appliance. Do not seal around any part of the appliance.

22. Install the shower fittings. Refer to separate Installation and User Guide.

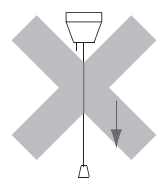
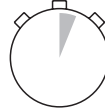
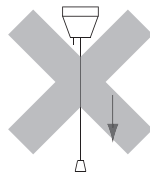
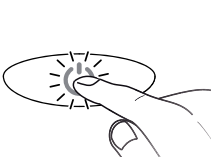
Basic Post Installation Checks



1. Turn on electrical supply.
2. Test shower drain pump (if applicable).
3. Power to appliance, check **Start/Stop** for blue light.



4. Temperature to full cold.
5. Start shower to test for water flow.
6. If there is no water after 5 seconds, make sure that the appliance has been primed.



7. Push **Start/Stop** to turn off the appliance. The pulsing light and "beep" indicates that the appliance is shutting down.
Important! DO NOT isolate the power to the appliance as this may result in a temporary malfunction.
8. The appliance will purge water from its tank for a few seconds.
Important! DO NOT isolate the power to the appliance.
Go to section: '**Commissioning**'.

COMMISSIONING

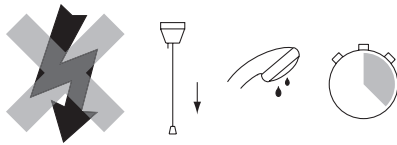
Important! On initial installation, the appliance needs to 'learn' about the site conditions and does so during the commissioning cycle. It is important that the shower is commissioned correctly otherwise an error condition may occur. Once set, the shower constantly updates it's memory with information about the site conditions to deliver the best performance.

Set Maximum Temperature and Commissioning Cycle

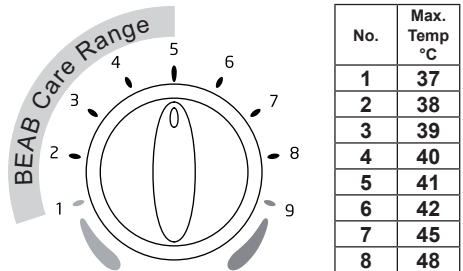


1. If the appliance is running, push **Start/Stop** to turn it off. The pulsing light and "beep" indicates that the appliance is shutting down.
2. The appliance will purge water from its tank for a few seconds.

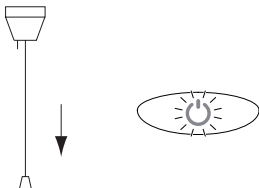
Important! DO NOT isolate the power to the appliance as this may result in a temporary malfunction.



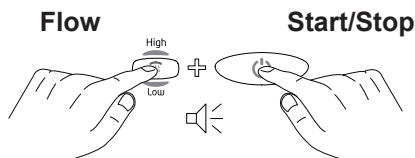
3. Wait until the water has stopped flowing and turn off the power to the appliance, residual water may drain over a few minutes.
4. Turn dial to desired position **in table**. **This will set the maximum showering temperature** (i.e. Position 5 = Max Temp of 41°C).



(See also section: 'BEAB Care').



5. Power to appliance, check for blue light.

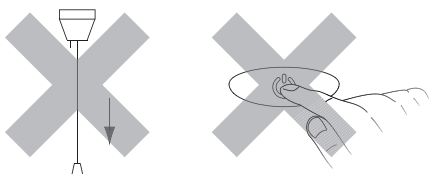


Warning! Commissioning
Max. Temp. reaches 44 °C!

6. **Within 30 seconds**, simultaneously push and hold down **Flow** and **Start/Stop** buttons.

On the 1st beep, release **Start/Stop**, on the 2nd beep, release **Flow**.

The max temperature setting is now stored.



8. In some installations, the commissioning cycle may take up to 130 seconds. Once the cycle has been activated, allow the water to turn off automatically when complete. **DO NOT** interrupt unless the **Reset** light turns on, refer to section: '**Fault Diagnosis**'.

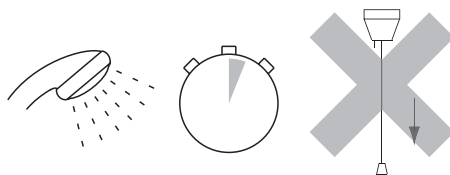


10. Push **Start/Stop** to turn off the appliance. The pulsing light and "beep" indicates that the appliance is shutting down.

Important! DO NOT isolate the power to the appliance as this may result in a temporary malfunction.

7. Water flows for approximately 80 seconds. If there is no water after 5 seconds, make sure that the appliance is primed (refer to the appropriate instruction in section: '**Installation**').

9. Following commissioning check that the maximum temperature is acceptable to the user.



11. The appliance will purge water from its tank for a few seconds.

Important! DO NOT isolate the power to the appliance.



12. Wait until the water has stopped flowing and turn off the power to the appliance, residual water may drain over a few minutes.

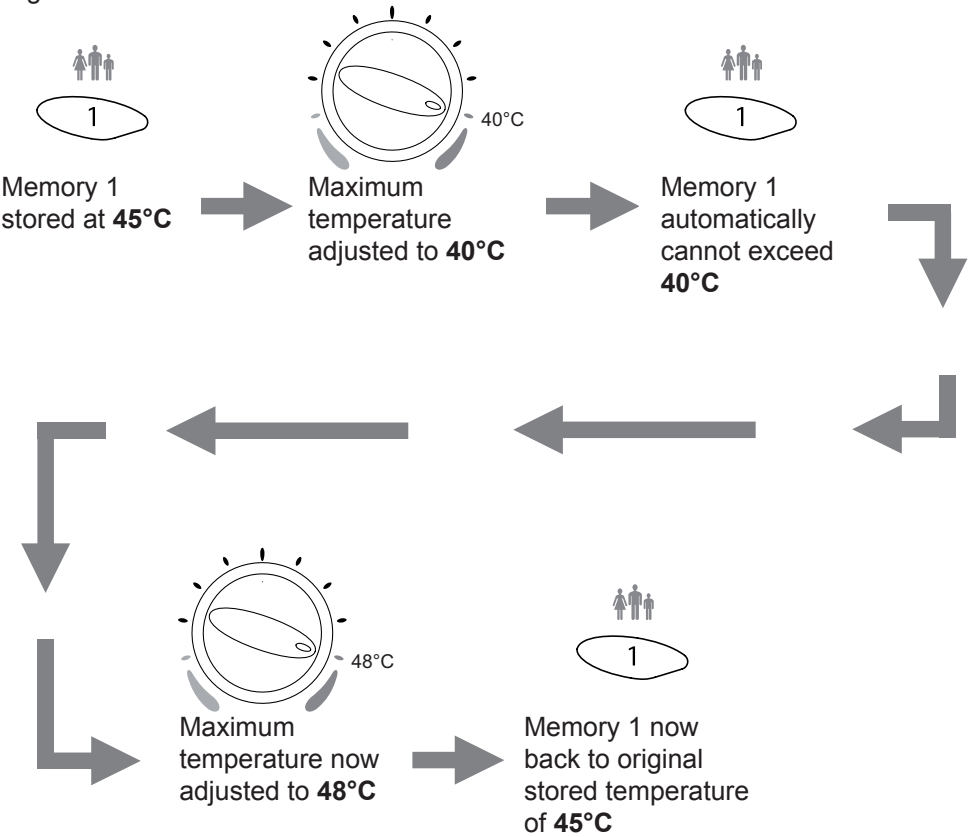
BEAB Care

If the shower's maximum temperature is set to 41 °C or cooler, there is a clear triple beep tone and single pulse of the **Start/Stop** light every time the double pole switch is turned on. This is to show that the appliance is in a '**BEAB Care**' compliant mode. If recommissioning is required whilst in this mode, wait until beeps have passed before starting the commissioning cycle.

Memory Model

If the maximum temperature is adjusted **after** having been stored in one or more of the memory buttons (refer to section: '**Operation, Storing the Memory Presets**'), then the showering temperature cannot exceed the **new maximum setting**.

E.g.



OPERATION

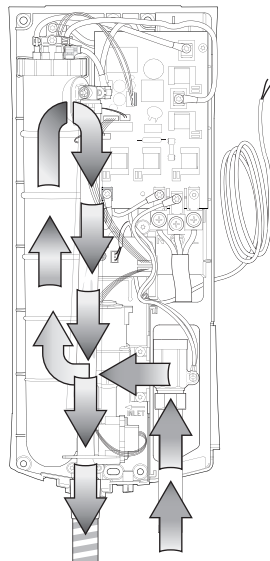
1. How your Shower Works

Hot water is produced by passing cold water through a heating tank.

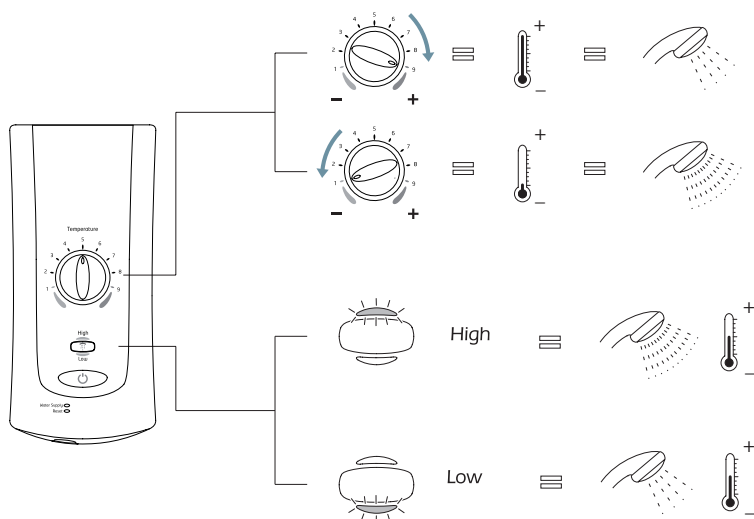
The shower constantly monitors the following conditions:

- The incoming cold water temperature.
- The showering temperature.
- The flow rate of water.
- The current user settings.

The flow rate may automatically adjust to maintain the current temperature setting. As part of this process, a series of 'clicks' may be heard, this is a normal part of the operation when the shower is in use.



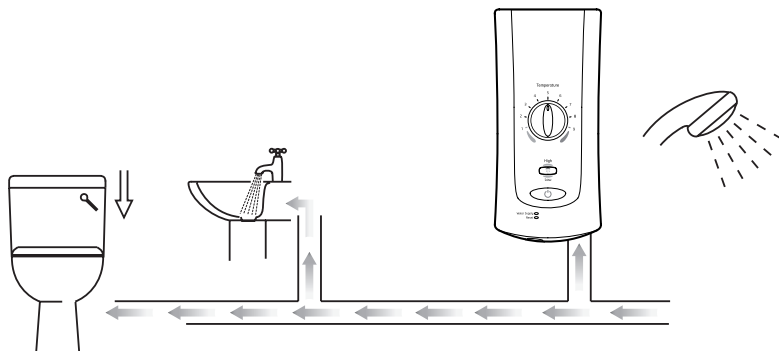
The showering temperature is adjusted by turning the **Temperature Control Dial**, which varies the flow of cold water passing over the elements. The slower the rate of flow, the warmer the shower and vice versa.



As outlined in section '**Shower Performance**', certain conditions can cause the shower's performance to vary. The most common of these conditions is detailed below:

The Effect of Other Water Devices

Temporary changes in supply conditions can cause reduced flow performance. The selected flow setting may not be available until supply returns to normal.



Thermostatic Performance

To maintain thermostatic performance, the shower may override the selected flow condition. The selected flow indicated does **NOT** change.

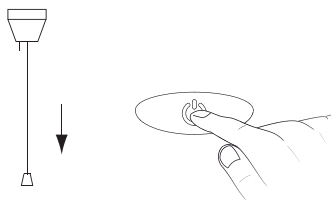
Unattended Operation

The appliance has a built in 'Shower Stop' timer to protect from accidental unattended operation. This feature automatically switches the shower **off** after **40 minutes** of continuous use. Normal operation is restored by re-selecting the **Start/Stop** button.

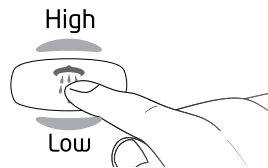
Note! High cold water mains supply pressures and high shower temperatures will cause a slight hissing sound to be heard from the appliance whilst it is operating. This is quite normal and does not indicate that there is a fault with the shower.

2. Using the Shower

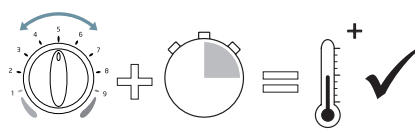
Refer to section: 'Important Safety Information' first.



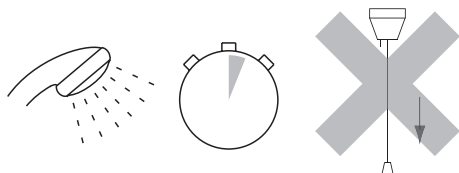
1. With the electrical supply turned on, push **Start/Stop**.
2. Select the desired flow by pushing either once or twice.



3. Check water temperature before entering shower.
4. Allow 10-15 seconds for any temperature adjustments to reach the showerhead.

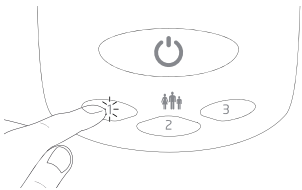
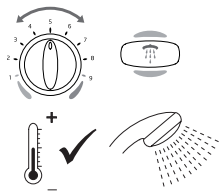


5. **Powering down the appliance:**
Caution! Isolating power without shutting down the appliance using the **Start/Stop** button, and not waiting for the flow to stop, will result in a temporary malfunction. **Always follow the correct shut down procedure.**
6. Push **Start/Stop** to turn off the appliance. The pulsing light and "beep" indicates that the appliance is shutting down.
Important! DO NOT isolate the power to the appliance.

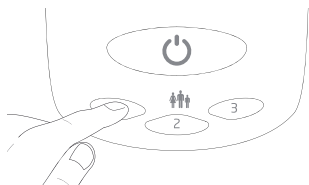


7. The shower will purge water from its tank for a few seconds.
Important! DO NOT isolate the power to the appliance.
8. Wait until the water has stopped flowing and turn off the power to the appliance, residual water may drain over a few minutes.

3. Storing the Memory Presets (Memory Control Model only)



1. Set the shower to the desired temperature and flow.
2. Push and hold down the desired memory button. A "beep" and flashing light will indicate the setting has been stored successfully.



3. To retrieve a stored setting, push the desired memory button when the shower is either on or off.

FAULT DIAGNOSIS

1. User Troubleshooting Guide

The Mira Advance ATL electric shower is fully performance tested after assembly. In the unlikely event that you experience problems with the appliance, then the following procedures will enable basic troubleshooting before contacting the competent tradesperson responsible for installing the shower.

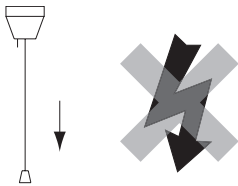
Warning! There are no user serviceable components beneath the cover of the appliance.

Only a competent tradesperson should remove the cover whilst observing the warnings given in section: '**2. Installer Troubleshooting Guide**', prior to performing any maintenance.

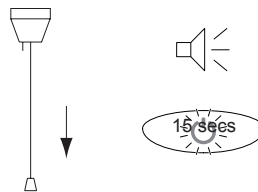
Reset the Shower

This is the first solution to the appliance not operating (i.e. the reset light is illuminated).

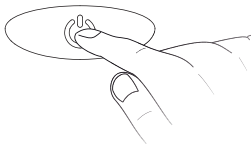
DO NOT switch on the appliance if there is a possibility that the water in the shower is frozen!



1. Isolate electrical supply.



2. Restore power to the appliance. The appliance may "beep" and the **Start/Stop** button pulse for 15 seconds.



3. Wait for the **Start/Stop** button to stop pulsing, then operate the appliance, refer to section: '**Operation, Using the Shower**'.













4. If the failure continues after resetting, there are a few basic supply checks that can be performed.

continued.....

Basic Supply Checks:

- Check there is electricity still supplied to the appliance (lights and/or beeps will confirm this). If in any doubt, contact a qualified electrician. If a short power cut has occurred during use, the shower will automatically reset as above and be ready when the blue light stops pulsing.
- Check all plumbing isolator valves to the shower are fully open.
- A section of supply pipe may be preheating the cold water supply to the shower. E.g. cold water supply pipe is running through a loft or is adjacent to hot water pipes.
- A section of supply pipe is frozen. Allow to thaw and insulate the pipe.
- Recommission the shower (refer to section: '**Commissioning**').
- In rare cases, **or if the unit has been powered down incorrectly**, hot water may be retained within the shower causing a failure to continue even though the underlying cause may have been corrected. Allowing the water to cool for approximately 20 minutes before use should clear this error.

If a failure still continues after all of these checks are complete, and the shower has once again been reset, and a solution has not been identified in the fault diagnosis table, then contact a competent tradesperson who can further diagnose the fault.

No light  Flashing light  Solid light 	
Indicator Display	Possible Cause/Rectification
No lights or beeps	Problem with Electrical supply. <ol style="list-style-type: none"> 1. Make sure there is power to the appliance. 2. Reset the shower. 3. Contact qualified electrician to investigate the cause.
Shower temperature is not hot enough.	Maximum temperature is set too low. <ol style="list-style-type: none"> 1. Adjust Maximum Temperature, refer to section: 'Set Maximum Showering Temperature and Commissioning Cycle'.
Water Supply  Reset  OR 	Problem with incoming water supply. Hose or showerhead blocked. Temperature is too high and/or pressure is too low. <ol style="list-style-type: none"> 1. Water supply may correct itself within a few minutes. 2. The showerhead may be blocked, refer to the fault diagnosis section in your shower fittings installation and user guide. 3. The shower hose is kinked or blocked. 4. If the warning persists during further use, check all isolator valves are fully open and Reset/Recommission the shower. 5. If the warning still persists, there is a problem with the water supply. Contact a competent tradesperson who can further investigate the cause.
Water Supply  Reset  OR 	Automatic shutdown to protect against unsafe showering. Caused by problem with either the appliance or the electrical/water supply. <ol style="list-style-type: none"> 1. Reset the shower.
 Water Supply  Reset 	Appliance has been incorrectly shut down. <ol style="list-style-type: none"> 1. On restart and for safety reasons, the appliance will complete a second cold purge of the tank followed by normal operation. The Start/Stop button will pulse for 30 seconds to indicate the appliance is in recovery mode (This will only happen in Non BEAB Care mode settings).

2. Installer Troubleshooting Guide










Refer to section: '**Important Safety Information**' first and refer also to '**User Trouble Shooting Guide**'.






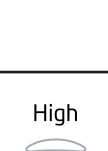
The following troubleshooting solutions may require the removal of the cover of the shower. The cover should only be removed by a competent tradesperson and when doing so they should be aware of the following:
















- Isolate the electrical and water supply before initially removing the cover.
- Make sure Ribbon Cable is disconnected when removing the front cover and reconnect when maintenance is complete.
- Mains connections are exposed when the cover is removed.
- Refer to wiring diagram before making any electrical connections.
- Make sure all electrical connections are tight to prevent arcing/overheating.
- Make sure all plumbing connections are watertight.













When following these instructions, it is sometimes necessary to examine the appliance with the electrical and water supplies turned **on**. It is therefore essential that the appropriate safe working practices are followed in accordance with the current Health and Safety Legislation.

If conducting a continuity check using a multimeter, make sure the electrical supply is **ISOLATED**.

No light  Flashing light  Solid light 		
Fault Code	Indicator Display	Possible Cause/Rectification
A	Water Supply  Reset  OR 	Problem with incoming water supply. Isolator valves closed, filter blocked or incoming water supply blocked. <ol style="list-style-type: none">1. Check all isolator valves are fully open.2. Clean / replace filter, refer to section: 'Maintenance'.3. Check plumbing system for blockages.
0	High  Low Water Supply  Reset 	Unidentified Error. <ol style="list-style-type: none">1. Reset / Recommission.2. Replace Control PCB.

1		<p>Incoming water flow too low for appliance to operate safely, faulty Thermal Trip or faulty Heater Tank.</p> <ol style="list-style-type: none"> 1. Reset / Recommission the shower. 2. Check all plumbing isolator valves to the shower are turned fully on. 3. Check water pressure. 4. A section of the supply pipe is frozen, allow to thaw and insulate the pipe. 5. Replace Thermal Trip. 6. Replace Heater Tank.
2		<p>Problem with electrical supply, faulty Control PCB or faulty Relay Board.</p> <ol style="list-style-type: none"> 1. Reset / Recommission the shower. 2. Replace Thermal Trip. 3. Replace Control PCB 4. Replace Relay Board.
3		
4		<p>Appliance has been incorrectly shut down.</p> <ol style="list-style-type: none"> 1. Reset the shower. <p>Refer to section: 'Operation, Using the Shower' for correct shutdown procedure.</p>
		<p>Control PCB failure.</p> <ol style="list-style-type: none"> 1. Reset / Recommission the shower. 2. Replace Control PCB.
5		<p>Appliance has been incorrectly shut down.</p> <ol style="list-style-type: none"> 1. Reset the shower. <p>Refer to section: 'Operation, Using the Shower' for correct shutdown procedure.</p>
		<p>Incoming water temperature too high, faulty Control PCB or faulty Flow Valve Assembly.</p> <ol style="list-style-type: none"> 1. Reset / Recommission the shower. 2. Check mains water temperature. 3. Replace Flow Valve Assembly. 4. Replace Control PCB.
6		<p>Flow Valve Assembly is disconnected or faulty.</p> <ol style="list-style-type: none"> 1. Reset / Recommission the shower. 2. Check Flow Valve connection. 3. Check Multiway Cable Connection. 4. Replace Flow Valve Assembly. 5. Replace Control PCB. 6. Frozen unit.

7	 <p>High</p> <p>Low</p> <p>Water Supply </p> <p>Reset </p>	<p>False flow reading.</p> <ol style="list-style-type: none"> 1. Reset / Recommission the shower. 2. Re-prime the shower, refer to section: 'Installation'. 3. Replace Flow Valve Assembly.
8	 <p>High</p> <p>Low</p> <p>Water Supply </p> <p>Reset </p>	<p>Safety relay failure, faulty Control PCB or faulty Relay Board.</p> <ol style="list-style-type: none"> 1. Reset / Recommission the shower. 2. Check relay contacts. 3. Replace Thermal Trip. 4. Replace Control PCB. 5. Replace Relay Board. 6. Check Multiway Cable Connection.
9	 <p>High</p> <p>Low</p> <p>Water Supply </p> <p>Reset </p>	
10	 <p>High</p> <p>Low</p> <p>Water Supply </p> <p>Reset </p>	<p>Appliance has been incorrectly shut down.</p> <ol style="list-style-type: none"> 1. Reset the shower. <p>Refer to section: 'Operation, Using the Shower' for correct shutdown procedure.</p> <p>Problem with electrical supply, faulty Control PCB or faulty Relay Board.</p> <ol style="list-style-type: none"> 1. Reset / Recommission the shower. 2. Replace Thermal Trip. 3. Replace Relay Board.
11	 <p>High</p> <p>Low</p> <p>Water Supply </p> <p>Reset </p>	<p>Appliance has been incorrectly shut down.</p> <ol style="list-style-type: none"> 1. Reset the shower. <p>Refer to section: 'Operation, Using the Shower' for correct shutdown procedure.</p> <p>Problem with incoming water supply. Isolator valves closed, filter blocked or incoming water supply blocked.</p> <ol style="list-style-type: none"> 1. Check all isolator valves are fully open. 2. Clean / replace filter, refer to section: 'Maintenance'. 3. Check plumbing system for blockages. <p>Unsafe hot water detected, faulty Control PCB, faulty Relay Board or faulty Outlet Sensor.</p> <ol style="list-style-type: none"> 1. Wait 20 minutes to for water to cool. Reset/ Recommission the shower. 2. Check Outlet Sensor connection to Relay Board. 3. Check Multiway Cable Connector 4. Replace Control PCB. 5. Replace Relay Board. 6. Replace Heater Tank Assembly.

12	<p>High</p>  <p>Low</p> <p>Water Supply </p> <p>Reset </p>	<p>Outlet Sensor disconnected from Relay Board or faulty Control PCB.</p> <ol style="list-style-type: none"> 1. Reset / Recommission the shower. 2. Check Outlet Sensor connection to Relay Board. 3. Check Multiway Cable Connection. 4. Replace Control PCB. 5. Replace Heater Tank
13	<p>High</p>  <p>Low</p> <p>Water Supply </p> <p>Reset </p>	<p>Note! This failure only occurs during commissioning</p> <p>Possible Heater Failure.</p> <ol style="list-style-type: none"> 1. Reset / Recommission the shower. 2. Check resistance of Heater Tank elements. 3. Check operation of relays / replace Relay Board 4. Replace Heater Tank Assembly with an appropriately rated spare. 5. Replace Flow valve.
14	<p>High</p>  <p>Low</p> <p>Water Supply </p> <p>Reset </p>	<p>Appliance has been incorrectly shut down.</p> <ol style="list-style-type: none"> 1. Reset / Recommission the shower.
15	<p>LIGHTS FLASHING IN PECULIAR WAYS.</p> <p>High</p>  <p>Low</p> <p>Water Supply </p> <p>Reset </p>	<p>Power Supply failure.</p> <ol style="list-style-type: none"> 1. Replace relay PCB. 2. Check Multiway Cable connector. 3. Check Control PCB.
16	<p>PRODUCT DRIPPING WHEN NO POWER TO UNIT.</p>	<ol style="list-style-type: none"> 1. Check Filters for debris. 2. Check water pressure. 3. Change Flow Valve and Filter.
17	<p>PRODUCT CUTTING OUT (ERRATIC OPERATION).</p>	<p>Water ingress.</p> <ol style="list-style-type: none"> 1. Isolate and check case / cover for correct fitment.

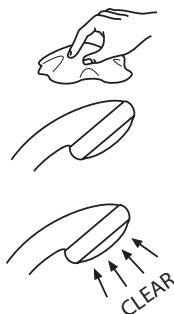
MAINTENANCE

User Maintenance - Cleaning

Clean with mild washing up detergent or soap solution. Wipe dry with soft cloth.

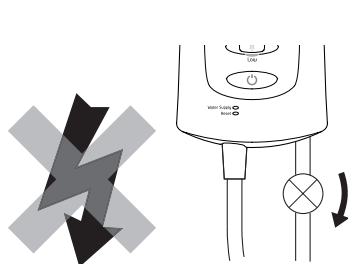
Note! If any of the button lights are flashing or pulsing continuously (in excess of 15 seconds) this may indicate that the button is stuck, this can be avoided by keeping the unit clean.

Poor shower performance can be avoided by cleaning the spray plate. Use thumb or soft cloth to wipe rubber nozzles. The showerhead must be descaled regularly to stop the showerhead getting blocked.

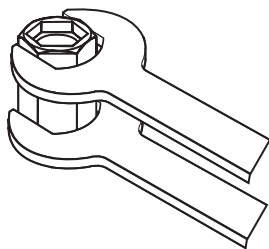
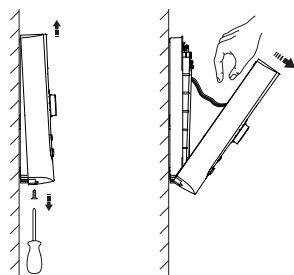


Tradesperson Maintenance - Inlet Filter Cleaning/Replacing

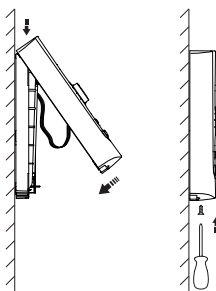
Read the section 'Important Safety Information' first.



1. Electrical and water supplies to the appliance are turned off.
2. Remove the cover screw, cover and splash guard. Disconnect the ribbon cable from the cover



3. Hold a wrench across the flats of the metal connector. Unscrew the filter using another wrench as shown. Clean or replace the filter as necessary. Refit the filter making sure it is screwed fully home. **Do not overtighten.**
4. Make sure all plumbing connections are sealed before restoring the water supply. **Re-prime the appliance** (refer to 'Installation') before restoring the electricity supply. Refit the splash guard, ribbon cable and cover.

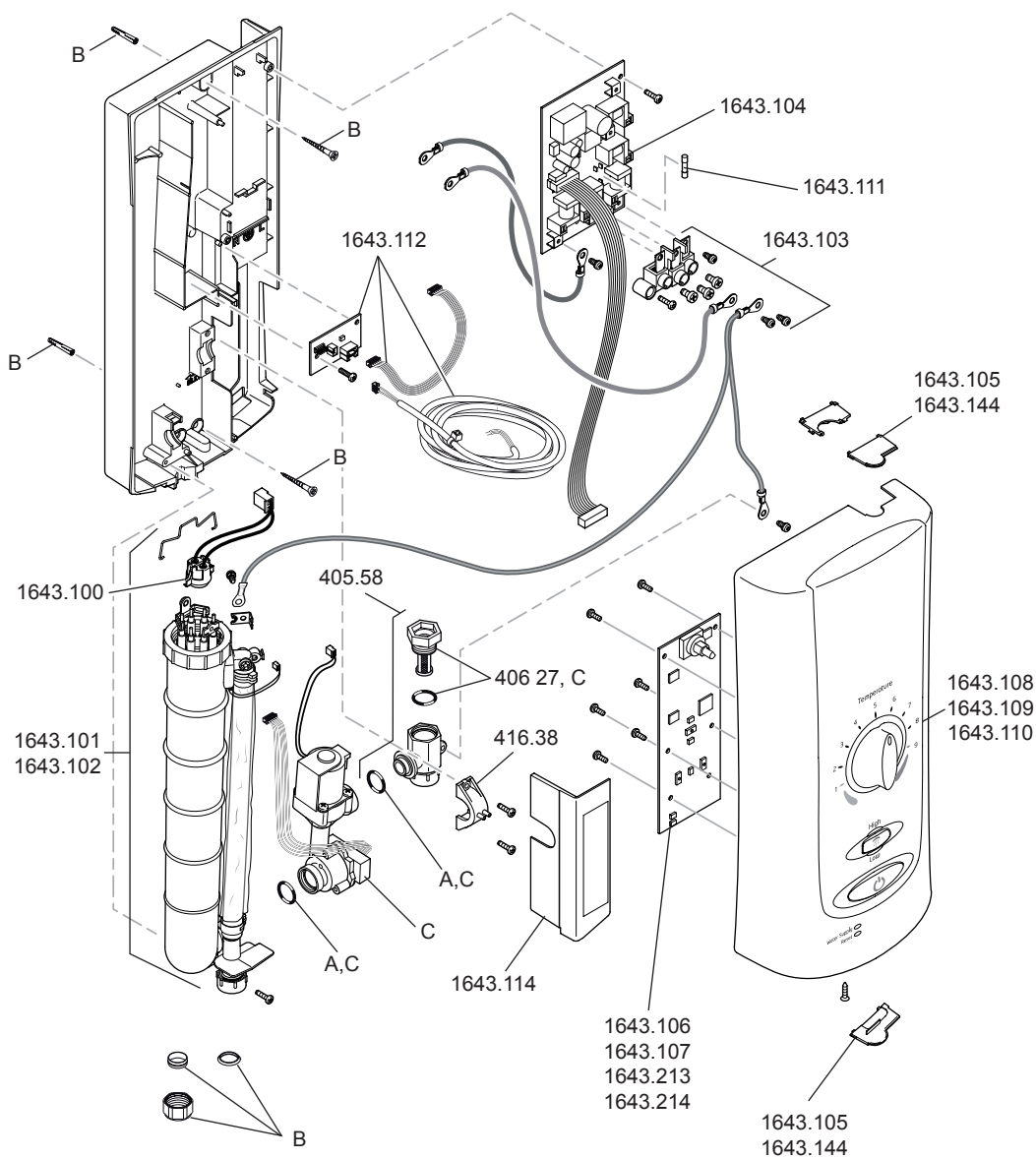


SPARE PARTS

405.58	Inlet Connector Assembly
406.27	Inlet Filter.
416.38	Clamp Bracket
1643.100	Thermal Trip.
1643.101	Tank Assembly 9 kW/230 V 9.8 kW/240 V (earth wire not included).
1643.102	Tank Assembly 8.2 kW/230 V 9 kW/240 V (earth wire not included).
1643.103	Terminal Block/Earth Wire/Neutral Wire.
1643.104	Relay Board (including screws).
1643.105	Top and Bottom Cover Inserts (white).
1643.106	9.8 kw Control PCB - Standard and Flex models (including screws).
1643.107	9.8 kw Control PCB - Memory model only (including screws).
1643.213	9.0 kw Control PCB - Standard and Flex models (including screws).
1643.214	9.0 kw Control PCB - Memory model only (including screws).
1643.108	Cover - Standard model only (Control PCB not included).
1643.109	Cover - Memory model only (Control PCB not included).
1643.110	Cover - Flex model only (Control PCB not included).
1643.111	Fuse.
1643.112	Drain Pump PCB - Extra models only.
1643.113	Component Pack (components identified 'B').
1643.114	Splash Guard.
1643.144	Top and Bottom Cover Inserts (grey).
1643.148	Seal Pack (components identified 'A').
1643.149	Flow Valve Assembly (components identified 'C').

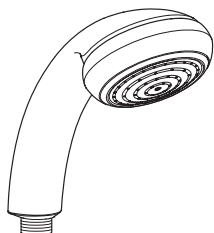
Warning! If the wiring layout is changed or amended, the product functionality and safety may be affected.

Warning! In the interests of safety, spares requiring exposure to mains voltage should only be fitted by competent persons.



ACCESSORIES

Genuine Mira accessories can be purchased direct from Customers Services (our contact details can be found on the back cover of this guide) or from approved stockists or merchants.

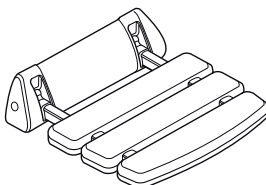


Everclear Showerhead

White - 2.1616.030

Chrome - 2.1616.031

Mira's new Everclear range has been specially designed for hard water areas and reduces the risk of lime scale build up.

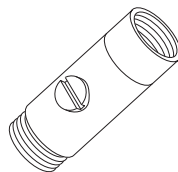


Shower Seat

White - 2.1536.128

White/Chrome - 2.1536.129

For use in or out of the showering area. **Note!** Must be installed onto a solid wall. Shower seat folds up when not in use

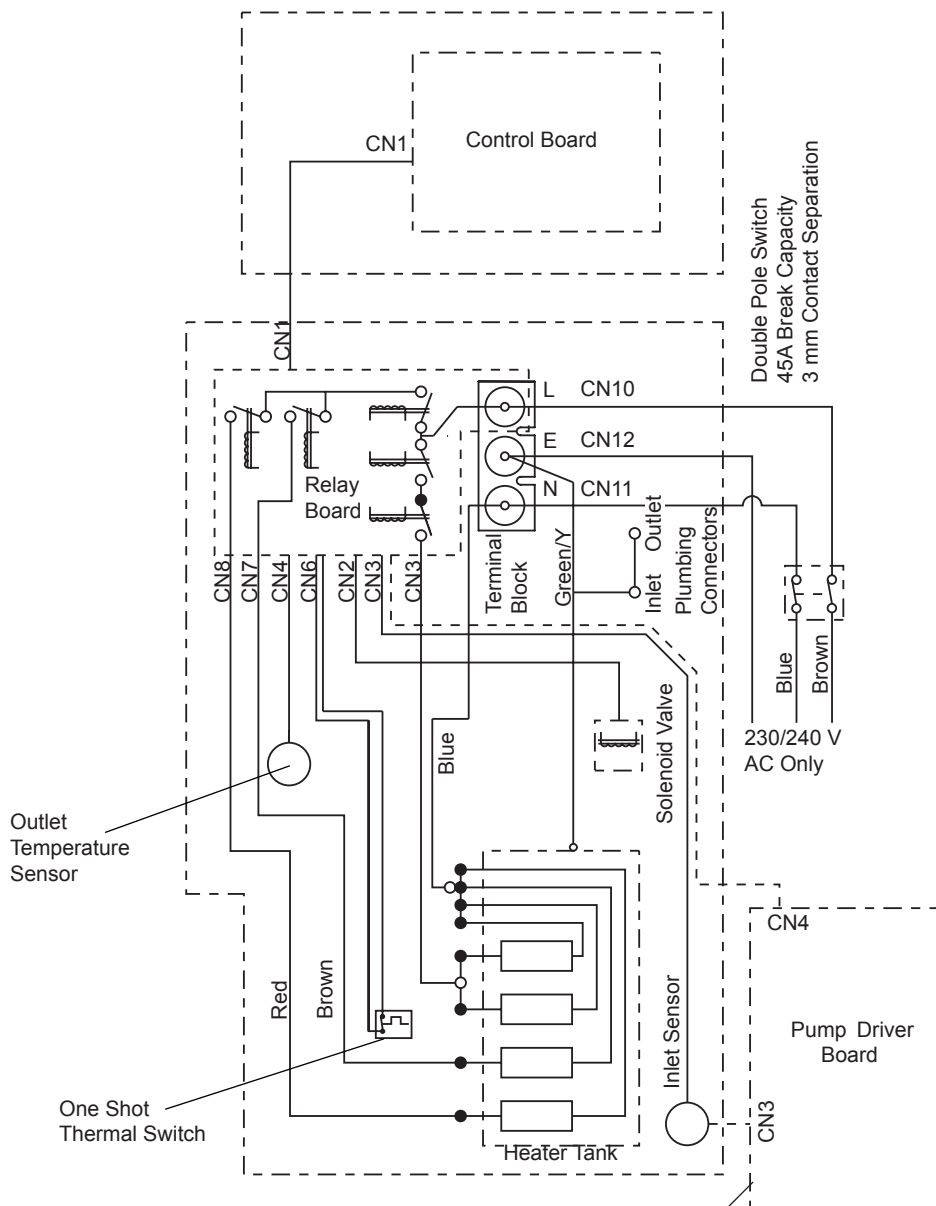


Double Outlet Check Valve (DCV-H)

Chrome - 1.0.110.55.1

DCV-H: An outlet double check valve, designed to prevent the backflow or backsiphonage of potentially contaminated water, through shower controls which are fitted with a flexible hose as part of the outlet shower fitting.

WIRING DIAGRAM



(Fitted to Standard Extra and Flex Extra models only.)

CARE MAINTENANCE

BEAB CARE Requirements:

Routine maintenance is required for all BEAB CARE installations. The Inlet Filter shall be cleaned or replaced after the first 6 months of use. This shall then be repeated every 12 months. Refer to section: **"Maintenance"** , on how to safely remove the Filter.

Year	Date	Signature
6 Months		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

NOTES

NOTES

CUSTOMER SERVICE

Guarantee

Your product has the benefit of our manufacturer's guarantee which starts from the date of purchase.

To activate this guarantee, please return your completed registration card, visit our website or free phone 0800 0731248 within 30 days of purchase (UK only).

Within the guarantee period we will resolve defects in materials or workmanship, free of charge, by repairing or replacing parts or product as we may choose.

This guarantee is in addition to your statutory rights and is subject to the following conditions:

- The product must be installed and maintained in accordance with the instructions given in this user guide.
- Servicing must only be undertaken by us or our appointed representative. **Note!** if a service visit is required the product must be fully installed and connected to services.
- Repair under this guarantee does not extend the original expiry date. The guarantee on any replacement parts or product ends at the original expiry date.
- For shower fittings or consumable items we reserve the right to supply replacement parts only.

The guarantee does not cover:

- Call out charges for non product faults (such as damage or performance issues arising from incorrect installation, improper use, lack of maintenance, build up of limescale, frost damage, corrosion, system debris or blocked filters) or where no fault has been found with the product.
- Water or electrical supply, waste and isolation issues.
- Compensation for loss of use of the product or consequential loss of any kind.
- Damage or defects caused if the product is repaired or modified by persons not authorised by us or our appointed representative.
- Routine maintenance or replacement parts to comply with the requirements of the TMV 2 or TMV 3 healthcare schemes.

What to do if something goes wrong

If your product does not function correctly when you first use it, contact your installer to check that it is installed and commissioned in accordance with the instructions in this manual.

Should this not resolve the issue, contact our Customer Services Team who will offer you or your installer advice and if applicable arrange for a Service Technician to call.

If the performance of your product declines, check in this manual to see if simple home maintenance is required. If you require further assistance call our Customer Services Team.

Extended Guarantees

A selection of protection plans are available that enable you to cover repair bills for the life of your policy (excludes Eire). Ring 01922 471763 for more details.

Helpdesk Service

Our dedicated Customer Services Team is comprehensively trained and can offer help and advice, spare parts, accessories or a service visit. We will need you to have your model name or number, power rating (if applicable) and date of purchase. As part of our quality and training programme calls may be recorded or monitored.

Mira Showers Website (www.mirashowers.co.uk)

From our website you can register your guarantee, download additional user guides, diagnose faults, purchase our full range of accessories and popular spares, refer to our FAQ's and request a service visit.

Spares and Accessories

We maintain extensive stocks of genuine spares and accessories and aim to provide support throughout the product's expected life. Payment can be made by phone at time of order using most major Credit or Debit cards and we aim to despatch orders within two working days. Items purchased from us are guaranteed for 12 months from date of purchase. For safety reasons spares exposed to mains voltages should only be fitted by competent persons.

Returns – items can be returned within one month of date of purchase, providing that they are in good condition and the packaging is unopened. Please obtain authorisation from our Customer Services Team before return. We reserve the right to apply a 15% restocking charge.

Service / Repairs

We have a nationwide team of Service Technicians who can carry out all service or repair work to your product within the guarantee period and beyond. You have the assurance of a fully trained Mira Technician, genuine Mira spare parts and a 12 month guarantee on any chargeable work done.

Payment should be made directly to the Service Technician who will accept most major Credit or Debit cards.

To Contact Us

UK

Telephone: 0844 571 5000

Mon to Fri 8:00 am - 5:30 pm, Sat 8:30 am - 3:30 pm

E-mail: technical@mirashowers.com

Fax: 01242 282595

By Post: Mira Customer Services Dept, Cromwell Road, Cheltenham, Gloucestershire, GL52 5EP

Eire

Telephone: 01 459 1344

Mon to Fri 9:00 am - 5:00 pm

E-mail: sales@modernplant.ie

Fax: Dublin 01 459 2329

By Post: Modern Plant Ltd (Dublin), Otter House, Naas Road, Clondalkin, Dublin 22

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